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Chiral perturbation theory and pion condensation at finite isospin

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QCD at finite isospin is interesting for a number of reasons. One of them is that it is free of the sign problem and therefore amenable to lattice simulations.

In this talk, I will discuss recent results for two and three flavor chiral perturbation theory at finite isospin. I will present results for the pressure, pion and quark condensates and isospin density. The results will be compared to those of recent lattice simulations.

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